

Name: _____
A2CC: Review of Solving Exponential and Power Equations

Date: _____

Solve each equation.

1. $4^{x+2} = 4^3$

2. $x^{\frac{2}{3}} = 16$

3. $36^x = 6^{x-1}$

4. $2x^{\frac{2}{5}} = 32$

5. $2^{x^2+2} = 2^{3x}$

6. $(x-1)^{\frac{2}{3}} = 25$

7. $\left(\frac{1}{3}\right)^{1-x} = 9^x$

8. $2y^{\frac{1}{2}} = 6$

9. $7^x = \frac{1}{49}$

10. $4x^{\frac{1}{5}} + 2 = 10$

11. $5 + 7^x = 6$

12. $y^{-\frac{1}{3}} - 1 = 2$

13. $3y^{\frac{1}{3}} - 2 = 4$

14. $2(5)^{-x} = 50$

15. $2x^{-\frac{1}{2}} - 4 = 2$

16. $3^{x+1} = 27^x$